

ABSTRACT OF THE INVENTION

Apparatus for imaging of the inner structure of the breast, the apparatus comprising:

5 a source of light illuminating the breast when the source of light is situated at a first position of the breast; and

 a detector which when situated at a second position relative to the breast, detects light from said source passing through a portion of the breast from the source;

 wherein the source of light comprises either:

10 a non-laser radiant source and at least one optical filter situated between source and the detector that limits the light reaching the detector from the source to a visible spectral band limited to wavelengths in the range from 490 to 510 nanometers or 520 to 580 nanometers; or

 a source of laser light operating at an output at between 490 and 510
15 nanometers or between 520 and 580 nanometers or is a tunable laser light source operating at a wavelength between 490 and 510 nanometers or between 520 and 580 nanometers.